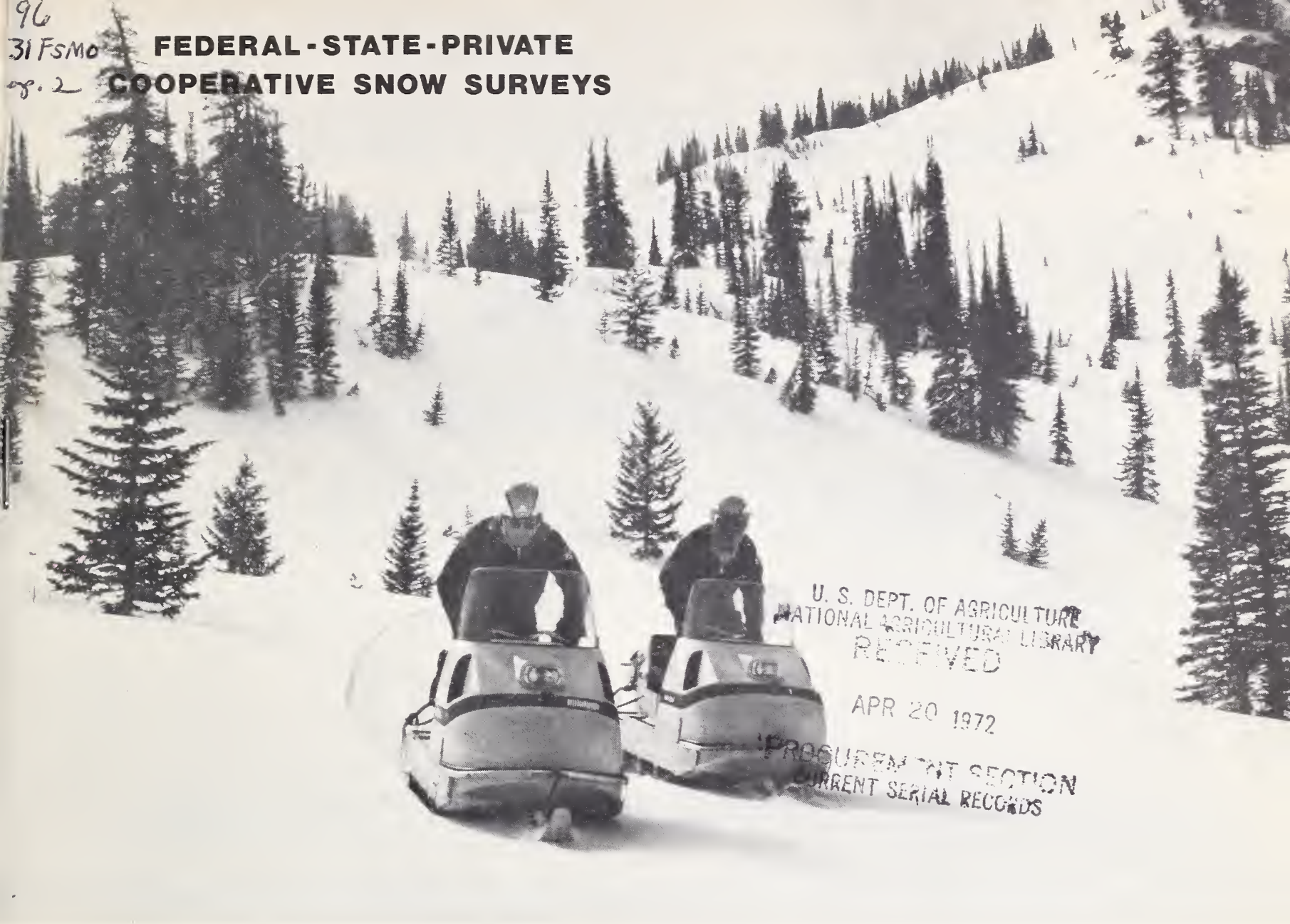


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WATER SUPPLY OUTLOOK FOR MONTANA

Prepared by
U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE
Collaborating with
MONTANA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State, and private organizations listed on the inside back cover of this report.

AS OF
APR. 1, 1972

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR MONTANA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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ADMINISTRATOR
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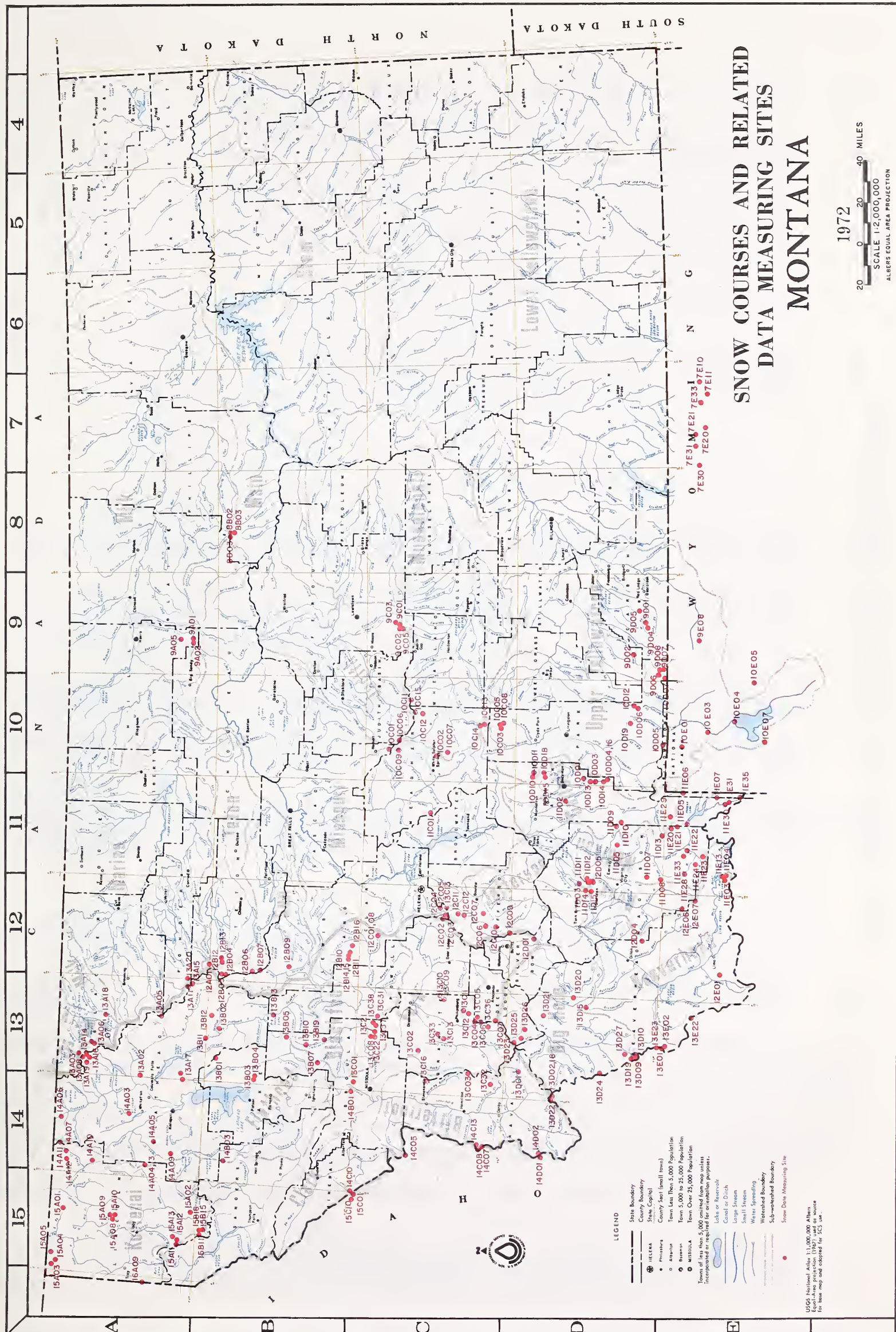
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SNOW COURSES AND RELATED DATA MEASURING SITES MONTANA

1972
0 20 40 MILES
SCALE 1:2,000,000
ALBERS EQUAL AREA PROJECTION

LEGEND

- State Boundary
- County Boundary
- State Capital
- County Seat (small towns)
- Town Less Than 5,000 Population
- Town 5,000 to 25,000 Population
- Town Over 25,000 Population
- Towns of less than 5,000 omitted from map unless incorporated or required for identification purposes.
- City or Borough
- Local Stream
- Large Stream
- Water Reservoir
- Water Spilling
- Watershed Boundary
- Sub-watershed Boundary
- Snow Data Measuring Site

USGS National Atlas 1:2,000,000 Albers Equal-Area projection (1962) used as source for base map and adapted for SCS use.

MONTANA WATER SUPPLY OUTLOOK
April 1, 1972

* * * * *

* The higher elevation snow courses near and west
* of the Continental Divide continue to show
* record amounts of water stored in the snowpack.
* Other areas are generally above average. The
* Gallatin area continues to record a near aver-
* age snowpack. Some melting occurred at lower
* elevations during March, increasing soil mois-
* ture and streamflow. Streamflow volumes are
* forecast to be near or record high amounts for
* nearly all streams west of the Divide and some
* east of the Divide.

* * * * *

COLUMBIA RIVER DRAINAGE

Snow - Nearly all higher elevation snow courses continue to have higher water contents than any previously measured. Some melting occurred at lower elevations, increasing soil moisture. Lower elevation snowpack is above average. In all drainages, the current snowpack is greater than last year and 130 to 155 percent average.

Streamflow - Streamflow forecasts are about the same as those released last month, with record runoffs expected on most streams. Generally, spring and summer volumes are forecast to be 30 to 50 percent above the 15-year average. There has been some reduction in the flooding potential because of lower elevations snowmelt. However, peak flows will be well above average this spring. The amount of flooding will depend somewhat on temperature and precipitation patterns during May and June.

MISSOURI RIVER DRAINAGE

Snow - Water contents at nearly all higher elevation snow courses near the Continental Divide are near or above previously measured maximums. Other areas are generally above average. The Gallatin River drainage has snowpack a little above average. Melting occurred at lower elevations during March. The snowpack is now 140 to 160 percent average in nearly all drainages. Exceptions are the Madison and Gallatin which are in the 110-120 percent range.

Soil moisture at the higher elevations is near average in most drainages, and above average at lower elevations, resulting from recent snowmelt. Exceptions are the Beaverhead, Madison and Gallatin drainages where higher elevation moisture is also above average.

Streamflow - Near record volumes are forecast for streams in the Sun-Marias and St. Mary drainage areas. Above average runoff is expected on most other streams with the exception of those in the Gallatin River drainage. Streamflow forecasts on most streams range from 130 to 160 percent average. The Gallatin streams are forecast to have 110 to 120 percent runoff. The potential for serious flooding has been reduced by lower elevation melting during March. However, most streams are expected to have above average peak flows. The amount of flooding will depend on precipitation and temperatures during May and June.

YELLOWSTONE RIVER DRAINAGE

Snow - Some higher elevation snow courses continue to have record amounts of water content, with others near previously measured maximums. Some melting occurred at lower elevations during March, but snowpack remaining at the lower elevations is generally above average. Snow cover is about 125 to 145 percent average in the upper Yellowstone drainage. The Little Big Horn drainage has snow cover about 20 percent above average, while the Big Horn snowpack in Wyoming is about 135 percent average.

Soil moisture beneath the snowpack is generally near or above average at higher elevations and above average at lower elevations, as a result of recent snowmelt.

Streamflow - Nearly all streams are forecast to produce a little less runoff than previous maximums. Tributaries above Billings are forecast between 120 and 140 percent average runoff. The Big Horn and Lower Yellowstone drainages are forecast to have 140 to 150 percent average runoff. The snowmelt at lower elevations has reduced somewhat the potential for serious flooding which existed last month. However, peak flows are expected to be higher than normal this spring. The amount of flooding will depend on temperature and precipitation patterns during May and June.

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
<u>COLUMBIA RIVER DRAINAGE</u>			
Kootenai	19	113	140
Flathead	29	111	141
Upper Clark Fork	26	123	154
Lower Clark Fork	11	118	132
Bitterroot	13	127	156
<u>MISSOURI RIVER DRAINAGE</u>			
Jefferson	36	100	147
Madison	19	79	117
Gallatin	13	75	109
Missouri Main Stem	11	105	144
Judith-Musselshell	8	93	125
Marias-Teton-Sun	11	102	151
Milk (headwaters)	3	102	143
<u>YELLOWSTONE RIVER DRAINAGE</u>			
Yellowstone	26	86	128
Little Big Horn	7	87	118
-3-			

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASIN

Kootenai

Baree Trail	3800	48	7.5	3/31	6.3	6.8	6.5
Murphy Lake R. S.	3000	48	22.6	4/03	22.9	20.2	21.1
Raven R. S.	3050	48	23.0	3/31	15.7	16.8	21.0

Flathead

Desert Mountain	5600	54	8.4	3/30	8.8	8.2	7.5
Marias Pass	5250	54	6.5	3/27	8.5	6.2	5.5

Clark Fork

Black Pine	7100	48	10.0	3/28	7.5	7.8	7.4
Lubrecht Forest	4100	48	26.8	4/01	24.8	18.1	-
Seeley Lake R. S.	4030	48	11.9	4/03	12.4	11.2	9.9
Skalkaho Summit	7260	48	10.8			10.0	9.7

Bitterroot

Gibbons Pass	7100	48	7.1	3/27	3/1	6.2	5.3
Lolo Pass	5250	48	10.6	3/28	4.3	6.5	6.3

MISSOURI RIVER BASIN

Beaverhead

Lakeview	6700	48	15.3	4/01	17.3	6.8	7.7
----------	------	----	------	------	------	-----	-----

Madison

West Yellowstone	6700	48	6.5	3/30	3.3	2.9	2.7
------------------	------	----	-----	------	-----	-----	-----

Gallatin

Bridger Bowl	7250	48	17.0	3/31	16.0	16.3	16.3
College Site No. 2	4856	54	17.7	3/31	18.4	17.8	16.4
Lick Creek	6860	48	18.8	3/30	17.5	17.4	17.2
Twenty-One Mile	7150	48	10.0	3/31	7.1	5.8	3.7

Missouri Main Stem

Kings Hill	7420	48	11.8	3/31	4.6	4.8	6.8
Stemple Pass	6350	48	5.9	3/29	4.3	4.0	4.4

Milk

Beaver Creek	3950	48	20.9	3/30	15.6	18.4	-
Rocky Boy	4700	36	10.1	3/30	8.8	7.5	-

Yellowstone

Battle Ridge	6020	48	17.6	3/31	12.4	15.2	14.0
Northeast Entrance	7350	48	9.4			5.3	6.2

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage			
			This Year	Last Year	Average	
COLUMBIA RIVER BASIN						
Kootenai	Koocanusa	4,965.0	141.4	-	-	
Flathead	Hungry Horse	3,428.0	1,495.0	1,980.0	2,077.0	
	Flathead Lake	1,791.0	1,034.0	732.5	746.7	
	Camas (4)	45.2	37.6	23.8	30.1	
	Mission Valley (8)	100.3	33.0	44.8	35.4	
Clark Fork	Georgetown Lake	31.0	25.8	25.0	22.1	
	Noxon Rapids	334.6	175.4	205.6	188.0	
	Nevada Creek	12.6	9.8	9.0	6.6	
Bitterroot	Como	34.9	11.2	14.4	13.4	
	Painted Rocks	31.7	15.7	23.8	19.7	
MISSOURI RIVER BASIN						
Beaverhead	Clark Canyon	328.9	155.0	137.3	135.6	
	Lima	84.0	58.5	45.7	24.2	
Ruby	Ruby	38.8	32.4	31.4	29.9	
Madison	Hebgen Lake	377.5	254.3	282.0	176.7	
	Ennis Lake	41.0	38.2	36.0	35.5	
Gallatin	Middle Creek	8.0	4.2	4.8	3.9	
Missouri	Canyon Ferry	2,043.0	1,614.0	1,444.0	1,546.0	
	Hauser & Helena	61.9	66.6	61.3	50.5	
	Lake Helena	10.4	12.2	10.2	7.3	
	Holter Lake	81.9	27.3	80.7	54.7	
	Smith River	10.7	5.2	-	7.0	
	Bair	7.0	4.4	-	5.0	
	Martinsdale	23.1	7.7	-	8.0	
	Deadman's Basin	72.2	50.2	-	48.7	
	Fort Peck	19,410.0	16,590.0	16,580.0	11,050.0	
	Sun	Gibson	105.0	50.0	46.9	51.0
		Willow Creek	32.3	17.2	23.6	22.0
		Pishkun	32.0	23.2	16.7	17.5
	Marias	Lower Two Medicine	16.6		-	0.0
Four Horns		19.2		13.6	12.2	
Swift		30.0	21.2	18.1	21.5	
Lake Frances		112.0	71.8	85.8	84.2	
Tiber		1,347.0	502.8	462.2	643.7	
Milk	Fresno	127.2	120.5	95.8	82.1	
	Nelson	66.8	39.6	47.1	40.2	
	Lake Sherburne	66.1	27.7	24.2	22.8	
Yellowstone	Mystic Lake	20.8	3.5	3.5	5.0	
	Tongue River	68.0		34.4	28.7	
	Cooney	27.5	12.0	21.0	15.2	
Bighorn	Bighorn Lake	1,356.0	926.0	862.5	717.4	

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

COLUMBIA RIVER BASIN

FISHER RIVER					
Libby (near)	400	134	Apr-Sept		298
	385	137	Apr-July		281
KOOTENAI RIVER					
Libby (at)	10300	128	Apr-Sept	8966	8025
	9200	132	Apr-July	7825	6956
YAAK RIVER					
Troy (near)	720	125	Apr-Sept		573
	700	127	Apr-July		549
KOOTENAI RIVER					
Leonia (at)	12000	131	Apr-Sept	10484	9198
	10750	133	Apr-July	9224	8072
	8600	133	Apr-June	7416	6463
RACETRACK CREEK					
Anaconda (near)	50.5	148	Apr-Sept		34.1
	41.0	148	Apr-July		27.6
FLINT CREEK					
Boulder Creek (below)(3)	102	147	Apr-Sept		69.6
	85.0	154	Apr-July		55.1
MIDDLE FORK ROCK CREEK					
Philipsburg (near)	120	163	Apr-Sept		73.4
	110	166	Apr-July		66.2
NEVADA CREEK					
Finn (near)	37.0	179	Apr-Sept		20.7
	35.0	181	Apr-July		19.3
BLACKFOOT RIVER					
Bonner (near)	1510	150	Apr-Sept	1283	1008
	1400	154	Apr-July	1181	912
	1220	155	Apr-June	1045	788
CLARK FORK RIVER					
Milltown (above)(4)	1170	155	Apr-Sept	694	755
	1050	160	Apr-July	614	659
	910	162	Apr-June	532	562
CLARK FORK RIVER					
Missoula (above)	2680	152	Apr-Sept	1980	1763
	2450	156	Apr-July	1795	1572
	2130	158	Apr-June	1577	1350

(3) Sum Flint Creek at Maxville and Boulder Creek at Maxville.

(4) Difference in observed flow Clark Fork above Missoula and Blackfoot near Bonner.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
WEST FORK BITTERROOT RIVER					
Conner (near)(5)	275	162	Apr-Sept		170
	260	164	Apr-July		158
EAST FORK BITTERROOT RIVER					
Conner (near)	260	153	Apr-Sept		170
	240	156	Apr-July		154
BITTERROOT RIVER					
Darby (near)	850	152	Apr-Sept	780	558
	800	155	Apr-July	738	517
	690	152	Apr-June	661	453
SKALKAHO CREEK					
Hamilton (near)	83.0	149	Apr-Sept		55.8
	75.0	153	Apr-July		48.9
BURNT FORK CREEK					
Stevensville (near)(10)	51.0	149	Apr-Sept	42.2	34.2
	45.0	152	Apr-July	38.1	29.6
BITTERROOT RIVER					
Missoula (at)(6)	2180	149	Apr-Sept		1466
	2050	150	Apr-July		1360
	1750	149	Apr-June		1175
CLARK FORK RIVER					
Missoula (below)	4860	150	Apr-Sept		3229
	4500	153	Apr-July		2932
	3880	154	Apr-June		2525
ST. REGIS RIVER					
St. Regis (near)	520	156	Apr-Sept		332
	510	161	Apr-July		316
CLARK FORK RIVER					
St. Regis (at)	6850	156	Apr-Sept	5448	4398
	6300	158	Apr-July	5037	3993
	5450	158	Apr-June	4440	3451
NORTH FORK FLATHEAD RIVER					
Columbia Falls (near)	2600	128	Apr-Sept		2023
	2400	130	Apr-July		1846
	2000	128	Apr-June		1562
MIDDLE FORK FLATHEAD RIVER					
West Glacier (near)	2450	127	Apr-Sept	2285	1931
	2300	128	Apr-July	2114	1791
	1950	128	Apr-June	1776	1521
SOUTH FORK FLATHEAD RIVER					
Columbia Falls (near)(7)	3150	134	Apr-Sept	2816	2358
	3000	134	Apr-July	2685	2235
	2600	132	Apr-June	2359	1967

(5) Adjusted for storage in Painted Rocks Reservoir.

(6) Difference in observed flow Clark Fork above and below Missoula.

(7) Adjusted for storage in Hungry Horse Reservoir.

(10) Adjusted for diversion into Sunset Highline Canal.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
FLATHEAD RIVER					
Columbia Falls (at)(7)	8400	130	Apr-Sept	7498	6467
	7900	131	Apr-July	7004	6003
	6800	132	Apr-June	6005	5155
SWAN RIVER					
Big Fork (near)	840	122	Apr-Sept		688
	750	123	Apr-July		607
	615	124	Apr-June		496
FLATHEAD RIVER					
Polson (near)(8)	10200	132	Apr-Sept	9382	7701
	9450	132	Apr-July	8774	7157
	8000	131	Apr-June	7543	6123
CLARK FORK RIVER					
Plains (near)(8)	18000	145	Apr-Sept	15439	12482
	16450	144	Apr-July	14368	11448
	14000	143	Apr-June	12443	9802
THOMPSON RIVER					
Thompson Falls (near)	365	129	Apr-Sept		283
	335	132	Apr-July		253
PROSPECT CREEK					
Thompson Falls (at)	220	145	Apr-Sept		152
	210	147	Apr-July		143
CLARK FORK RIVER					
Whitehorse Rapids (at)(9)	20000	143	Apr-Sept		13987
	18350	144	Apr-July		12787
	15400	141	Apr-June		10953

(7) Adjusted for storage in Hungry Horse Reservoir.

(8) Adjusted for storage in Hungry Horse Reservoir and Flathead Lake.

(9) Adjusted for storage in Hungry Horse, Flathead Lake and Noxon Rapids Reservoirs.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

MISSOURI RIVER BASIN

BEAVERHEAD RIVER					
Grant (near) (11) (12)	180	170	Apr-Sept	297	106
	165	183	Apr-July	263	90
RUBY RIVER					
Alder (near)	105	131	Apr-Sept		80.0
	90.0	134	Apr-July		67.0
BIG HOLE RIVER					
Melrose (near)	1020	148	Apr-Sept		690
	950	148	Apr-July		642
BIRCH CREEK					
Glen (near)	19.4	148	Apr-Sept		13.1
	16.5	150	Apr-July		11.0
BOULDER RIVER					
Boulder (near)	120	152	Apr-Sept		78.9
	115	152	Apr-July		75.5
JEFFERSON RIVER					
Sappington (at)	1480	156	Apr-Sept		948
	1330	156	Apr-July		857
WILLOW CREEK					
Harrison (near)	26.5	171	Apr-Sept		15.5
	24.0	169	Apr-July		14.2
MADISON RIVER					
West Yellowstone (near)	253	119	Apr-Sept		212
	194	121	Apr-July		160
MADISON RIVER					
Grayling (near) (13)	590	137	Apr-Sept	686	430
	475	141	Apr-July	544	337
MADISON RIVER					
McAllister (near) (14)	1030	140	Apr-Sept	1256	734
	835	142	Apr-July	1003	587
GALLATIN RIVER					
Gateway (near)	540	117	Apr-Sept	731	461
	470	119	Apr-July	623	393
BRIDGER CREEK					
Bozeman (near)	22.5	110	Apr-Sept	39.1	20.5
	31.2	110	Apr-July	37.8	19.3

(11) Adjusted for storage in Lima Reservoir.

(12) Adjusted for storage in Clark Canyon Reservoir.

(13) Adjusted for storage in Hebgen Lake.

(14) Adjusted for storage in Hebgen and Ennis Lakes.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
HYALITE CREEK					
Bozeman (near)(15)	42.3	113	Apr-Sept		37.4
	37.0	114	Apr-July		32.5
GALLATIN RIVER					
Logan (at)	575	121	Apr-Sept		473
	500	124	Apr-July		401
MISSOURI RIVER					
Toston (at)(16)	3100	148	Apr-Sept	3222	2105
	2700	147	Apr-July	2815	1836
SHEEP CREEK					
White Sulphur Springs (near)	31.0	168	Apr-Sept		18.4
	27.0	169	Apr-July		16.0
SUN RIVER					
Gibson Dam (at)(17)	820	136	Apr-Sept	746	604
	760	137	Apr-July	689	555
BELT CREEK					
Monarch (near)	190	174	Apr-Sept		109
	175	175	Apr-July		100
MISSOURI RIVER					
Fort Benton (at)(18)	5000	150	Apr-Sept		3321
	4460	157	Apr-July		2834
TWO MEDICINE CREEK					
Browning (near)(19)	345	135	Apr-Sept		256
	330	135	Apr-July		245
BADGER CREEK					
Browning (near)	172	129	Apr-Sept		133
	153	132	Apr-July		116
CUT BANK CREEK					
Cut Bank (at)	176	146	Apr-Sept		120
	162	146	Apr-July		111
MARIAS RIVER					
Shelby (near)(20)	870	144	Apr-Sept	602	604
	840	144	Apr-July	586	581

(15) Adjusted for storage in Middle Creek Reservoir.

(16) Adjusted for storage in Hebgen and Ennis Lakes and Clark Canyon Reservoir.

(17) Adjusted for storage in Gibson Reservoir and diversions.

(18) Adjusted for storage in Canyon Ferry Reservoir.

(19) Adjusted for storage in Two Medicine Reservoir and diversions into Two Medicine Canal.

(20) Adjusted for storage in Two Medicine, Four Horns, Lake Frances and Swift Reservoirs.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
MISSOURI RIVER Virgelle (at)(21)	6150 5450	152 155	Apr-Sept Apr-July		4036 3511
SOUTH FORK JUDITH RIVER Utica (near)	20.2 19.0	162 162	Apr-Sept Apr-July		12.5 11.7
MISSOURI RIVER Landusky (near)(21)	6700 600	150 154	Apr-Sept Apr-July		4484 3889
NORTH FORK MUSSELSHELL RIVER Delpine (near)	8.4 7.3	153 155	Apr-Sept Apr-July		5.5 4.7
SOUTH FORK MUSSELSHELL RIVER Martinsdale (above)	66.0 63.0	143 143	Apr-Sept Apr-July		46.2 44.0
MISSOURI RIVER Fort Peck Dam(below)(22)	6900 6150	160 160	Apr-Sept Apr-July		4312 3824
MILK RIVER Eastern Crossing (at)	220	84	Apr-Sept		262
MISSOURI RIVER Wolf Point (near)(22)	7250 6550	154 157	Apr-Sept Apr-July		4683 4168
MISSOURI RIVER Williston, N.D. (near)(29)	16300 14600	148 148	Apr-Sept Apr-July		10998 9823

SASKATCHEWAN RIVER BASIN

ST. MARY RIVER Babb (near)(30)	600 530	122 124	Apr-Sept Apr-July		492 427
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- (21) Adjusted for storage in Canyon Ferry and Tiber Reservoirs.
 (22) Adjusted for storage in Canyon Ferry, Tiber and Fort Peck Reservoirs.
 (29) Adjusted for storage in Canyon Ferry, Tiber, Fort Peck, Buffalo Bill, Boysen and Yellowtail Reservoirs. Sum Yellowstone River near Sidney and Missouri River near Culbertson.
 (30) Adjusted for storage in Lake Sherburne.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

YELLOWSTONE RIVER BASIN

YELLOWSTONE RIVER					
Corwin Springs (at)	2500	133	Apr-Sept	2689	1880
	2100	133	Apr-July	2239	1575
YELLOWSTONE RIVER					
Livingston (near)	2850	134	Apr-Sept		2122
	2380	134	Apr-July		1769
BOULDER RIVER					
Big Timber (at)	455	131	Apr-Sept		347
	430	132	Apr-July		327
STILLWATER RIVER					
Absarokee (near)(25)	740	132	Apr-Sept		558
	640	135	Apr-July		474
CLARKS FORK RIVER					
Belfry (near)	840	144	Apr-Sept		582
	750	142	Apr-July		530
ROCK CREEK					
Red Lodge (near)	146	138	Apr-Sept	142	106
	118	144	Apr-July	108	82.1
YELLOWSTONE RIVER					
Billings (at)	5400	137	Apr-Sept	5526	3944
	4700	138	Apr-July	4681	3400
BIG HORN RIVER					
St. Xavier (near)(26)	2400	140	Apr-Sept	2415	1719
	2300	142	Apr-July	2189	1625
LITTLE BIG HORN RIVER					
Lodgegrass (near)(28)	150	122	Apr-Sept		123
	135	124	Apr-July		109
YELLOWSTONE RIVER					
Miles City (at)(27)	8150	139	Apr-Sept		5850
	7350	142	Apr-July		5177
YELLOWSTONE RIVER					
Sidney (near)(27)	8900	147	Apr-Sept		6069
	8000	147	Apr-July		5454

(25) Adjusted for storage in Mystic Lake.

(26) Adjusted for storage in Buffalo Bill, Boysen, Bull Lake and Yellowtail Reservoirs.

(27) Adjusted for storage in Buffalo Bill, Boysen and Yellowtail Reservoirs.

(28) Sum Little Big Horn below Pass Creek and Lodgegrass Creek near Wyola.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

COLUMBIA RIVER BASIN

KOOTENAI RIVER

Bald Eagle Peak	5700	3/31	179	85.2	79.2	-
Banfield Mountain	5600	3/30	76	35.6	33.1	-
Banfield Mountain Pillow	5600	3/30	SP	30.2	28.3	-
Baree Creek	5500	3/30	146	68.9	57.5	49.6
Baree Midway	4600	3/30	113	52.3	41.8	33.8
Baree Trail	3800	3/31	20	8.8	16.2	7.8
Bear Mountain	5400	3/29	173	80.5	76.0	-
Bristow Creek	3900	3/30	29	11.9	17.1	-
Brush Creek	5000	3/28	41	14.5	13.2	13.1
Brush Creek Timber	5000	3/28	36	12.5	11.7	11.7
Cedar Grove	4100	3/31	40	17.5	18.2	14.5
Davis Creek	5400	3/28	68	32.6	36.7	-
Fernie	3500	3/30	26	10.5	10.5	8.8
Field	4200	4/01	27	9.7	6.8	5.8
Garver Creek	4250	3/28	26	10.9	16.7	-
Garver Creek Pillow	4250	3/28	SP	9.4	14.3	-
Glacier	4100	3/28	100	45.7	32.3	28.7
Graves Creek	4300	3/27	64	26.7	25.2	19.5
Gray Creek	5100	3/28	71	27.1	23.0	19.2
Halverson Creek	4850	3/29	124	61.4	57.3	-
Hawkins Lake	6450	3/28	104	43.9	42.6	-
Hawkins Lake Pillow	6450	3/28	SP	41.7	41.0	-
Keeler Creek	3300	3/29	25	11.7	20.3	-
Kicking Horse	5400	4/01	51	21.5	15.9	15.2
Kimberley	3800	3/30	23	8.6	10.5	7.5
Lost Soul	4800	3/30	40	18.3	21.2	-
Marble Canyon	5000	3/29	60	16.1	20.5	13.2
Morrissey Ridge	6100	3/30	100	44.1	35.5	29.4
New Fernie	4100	3/30	53	22.8	20.5	15.8
Poorman Creek	5100	3/31	106	51.1	45.0	-
Poorman Creek Pillow	5100	3/31	SP	47.8	42.0	-
Red Mountain	6000	3/30	64	28.3	25.9	20.3
Sinclair Pass	4500	3/29	33	8.7	7.2	5.2
Stahl Peak	6050	3/27	127	53.6	48.4	-
Sullivan Mine	5100	3/30	51	20.0	17.6	14.6
Upper Elk River	4400	3/29	21	7.4	9.2	7.4
Weasel Divide	5450	3/27	112	51.2	45.3	35.3

SP - Snow pillow observation - water content only.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

FLATHEAD RIVER

Bassoo Peak	5150	3/30	36	15.2	14.8	12.2
Beaver Lake	5900	3/31	87	38.3	34.7	24.0
Big Creek	6750	3/29	155	65.2	57.2	46.7
Camp Misery	6400	3/29	162	66.4	59.6	46.8
Desert Mountain	5600	3/30	51	23.3	20.0	16.3
Fatty Creek	5500	3/29	79	31.4	29.8	22.8
Griffin Creek Divide	5150	3/29	40	16.6	15.8	12.6
Gunsight Lake	6300	3/31	129	56.6	45.9	41.0
Hell Roaring Divide	5770	3/29	105	45.7	37.4	33.1
Holbrook	4530	3/28	34	13.7	13.5	10.4
Kishenehn	3890	3/30	26	9.4	11.2	9.6
Logan Creek	4300	3/28	24	8.6	9.5	8.6
Marias Pass	5250	3/29	68	29.4	30.2	18.8
Mineral Creek	4000	3/30	62	26.6	26.5	21.4
Noisy Creek	3600	3/29	12	1.8	4.4	-
North Fork Jocko	6330	3/30	145	65.5	60.0	47.2
Spotted Bear Mountain	7000	3/31	51	21.0	20.2	15.1
Trinkus Lake	6100	3/31	119	54.3	49.5	44.2
Twin Creeks	3580	3/31	36	15.5	17.9	11.4
Upper Holland Lake	6200	3/31	117	54.3	48.3	36.1

CLARK FORK RIVER

Black Pine	7100	3/28	62	24.4	16.5	14.1
Black Pine Pillow	7100	3/28	SP	24.8	16.3	14.1
Combination	5600	3/28	25	9.5	5.4	-
Copper Bottom	5200	3/31	42	20.4	17.4	-
Copper Camp	6950	3/31	120	56.0	49.4	-
Copper Creek	5700	3/31	61	28.2	25.4	15.1
Copper Lake Creek	6100	3/31	96	43.0	37.1	-
Cotter Mine	6250	3/31	75	34.7	34.7	17.2
Coyote Hill	4200	3/30	39	15.2	13.2	10.4
El Dorado Mine	7800	3/30	102	34.2	26.4	21.2
Fred Burr Pass	8000	4/01	124	43.8	29.6	26.6
Gold Creek Lake	7200	3/30	76	25.9	19.4	15.9
Heart Lake Trail	4800	3/28	87	39.4	33.2	23.0
Hoodoo Basin	6000	3/28	176	80.8	67.8	54.5
Hoodoo Basin Pillow	6000	4/01	SP	80.7	68.3	54.0
Hoodoo Creek	5900	3/28	175	78.3	64.2	50.6
Intergaard	6450	4/01	36	13.5	9.2	8.5
Lookout	5250	3/30	119	54.5	49.8	38.4
Lubrecht Flume	4800	3/25	25	8.4	6.0	-
Lubrecht Forest No. 3	5450	3/29	32	11.4	7.4	7.4

SP - Snow pillow observation - water content only.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

CLARK FORK RIVER (Continued)

Lubrecht Forest No. 4	4650	3/29	9	2.8	2.2	2.9
Lubrecht Forest No. 6	4040	3/29	6	2.1	1.6	3.0
Lubrecht Hydroplot	4200	3/25	17	5.8	4.4	-
North Fork Elk Creek	6250	3/29	57	22.3	13.6	-
Peterson Meadows	7200	3/28	54	17.3	11.6	-
Red Lion	7100	3/29	84	27.3	18.4	16.6
Skalkaho Summit	7260	3/29	108	44.6	33.2	26.4
Slide Rock Mountain	7100	3/29	69	27.2	20.0	15.4
Southern Cross	6500	4/01	21	8.5	7.7	7.4
Storm Lake	7780	3/28	60	19.0	17.4	14.6
Stuart Mill	6500	4/01	24	10.0	7.6	7.1
Stuart Mountain	7400	3/31	113	44.3	42.6	32.2
TV Mountain	6800	3/30	88	32.9	24.7	18.5

BITTERROOT RIVER

Ambrose	6480	3/29	50	20.6	15.4	13.7
East Fork Ranger Station	5400	3/27	23	9.4	6.0	7.1
Gibbons Pass	7100	3/28	83	34.4	31.5	23.0
Kit Carson	5020	3/31	33	13.2	10.8	8.6
Lolo Pass	5230	3/27	111	52.3	35.9	33.8
Lost Horse	5940	3/30	124	56.1	43.2	33.0
Moose Creek	6200	3/31	60	25.4	23.6	16.2
Nez Perce Camp	5580	3/31	58	25.5	18.6	15.2
Nez Perce Pass	6570	3/31	63	27.2	21.2	16.8
Saddle Mountain	7940	3/27	96	38.3	34.4	25.8
Saddle Mountain Pillow	7940	3/27	SP	38.0	39.4	-
Savage Pass	6600	3/27	102	42.9	32.6	28.6
Twelvemile Creek	5600	3/30	80	36.3	30.6	-
Twelvemile Creek Pillow	5600	3/31	SP	32.5	27.2	-
Twin Lakes	6510	3/30	149	67.4	53.6	45.0
Twin Lakes Pillow	6400	3/30	144	68.5	54.4	-

SP - Snow pillow observation - water content only.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

MISSOURI RIVER BASIN
BEAVERHEAD RIVER

Bloody Dick	7600	3/30	47	18.7	16.2	11.1
Camp Creek	6800	3/29	29	9.9	17.0	9.0
Carter Creek	7400	3/31	26	7.4	7.3	5.8
Dad Creek Lake	8400	3/29	60	19.4	20.8	13.0
Elk Horn Springs	7800	3/30	42	14.9	12.6	9.8
Gold Stone	8100	3/30	63	24.4	21.9	14.8
Kilgore	6200	3/30	23	8.9	18.2	8.9
Lakeview Canyon	6930	3/31	43	15.7	20.6	11.5
Lakeview Ridge	7400	3/31	35	12.2	16.2	10.0
Lemhi Pass	7480	3/29	30	10.3	12.3	8.5
Lemhi Ridge	8100	3/29	44	15.8	15.2	-
Sawtelle Mountain	8715	3/30	106	40.3	48.6	-
Trail Creek	7090	3/29	34	11.8	12.0	8.4
White Pine Ridge	8850	3/29	31	8.7	6.6	5.2

RUBY RIVER

Branham Lakes	8850	4/03	86	36.8	42.5	-
Clover Meadow	8600	3/29	71	22.1	27.7	16.0
Divide	7900	3/29	45	14.3	19.9	9.7
Middle Mill Creek	7850	4/03	50	20.4	24.5	-
Notch	8500	3/29	64	22.0	24.0	13.6
Smuggler Mine	6960	4/03	31	10.4	13.2	-

BIG HOLE RIVER

Abundance Lake	8800	3/29	78	30.4	27.6	19.8
Calvert Creek	6450	3/31	51	20.0	14.7	-
Darkhorse Lake	8600	3/29	100	42.3	40.7	27.0
Foolhen	8280	3/29	70	26.6	24.4	17.8
Jahnke Creek	7340	3/30	43	17.9	14.8	9.9
Jahnke Lake Trail	7200	3/30	49	19.2	15.2	-
Mudd Lake	7650	3/31	79	31.8	26.9	-
Palisade Creek	8250	3/31	112	46.6	43.0	-
Slag-A-Melt Lake	8750	3/29	96	37.9	37.8	-

JEFFERSON RIVER

Berry Meadow	7300	3/27	37	12.5	9.0	7.6
Copper Mountain	7700	3/31	43	13.6	12.2	11.3
Nez Perce Creek	6500	4/03	19	7.9	6.6	-
Picnic Grounds	6500	4/01	19	6.2	4.1	4.6
Pipestone Pass	7200	3/27	28	7.1	4.9	6.0
Rocker Peak	8000	3/27	66	22.7	21.3	-
Rocker Peak Pillow	8000	3/27	SP	20.3	19.1	-
Uncle Sam Gulch	6500	3/27	35	12.2	7.4	-

SP - Snow pillow observation - water content only.

SNOW

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD		
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)		
NAME	Elevation				Last Year	Average	
MADISON RIVER							
Big Springs	6500	3/30	62	27.1	30.8	20.8	
Black Bear	7950	3/29	134E	55.0E	-	-	
Black Canyon	7850	3/24	105	37.6	46.8	34.6	
Black Moose	8125	3/24	112	44.6	54.0	40.4	
Call Road	8050	3/29	51	15.0	17.9	10.8	
Four Mile	6900	3/27	28	9.2	10.6	8.0	
Hebgen Dam	6550	3/28	28	9.3	15.6	11.3	
Island Park	6315	3/30	45	16.3	25.2	15.6	
Jack Creek	7500	3/28	16	3.3	9.1	6.0	
Lake Creek	6100	3/29	25	6.8	11.9	7.8	
Latham Springs	7650	3/24	99	36.0	46.6	33.5	
Lower Twin	7900	3/27	71	26.9	29.8	19.0	
Lucky Dog	6900	3/24	73	29.6	36.2	24.8	
Madison Plateau	7750	3/29	75	31.1	35.4	-	
Madison Plateau Pillow	7750	3/29	SP	32.8	36.6	-	
Norris Basin	7500	4/04	35	14.4	15.0	10.1	
North Meadow	7500	3/27	36	11.5	10.8	7.9	
Old Road	7250	3/24	80	31.2	41.0	27.3	
Poachers Cabin	8000	3/24	103	38.6	45.4	33.6	
Potomageton Park	7150	3/31	39	15.0	19.6	15.4	
Sentinel Creek	8300	3/31	77	28.8	33.0	23.6	
Targhee Pass	7000	3/30	50	16.5	23.1	14.3	
Tepee Creek	8000	3/29	62	20.2	23.8	13.4	
Valley View	6500	3/30	46	17.6	26.1	15.9	
West Yellowstone	6700	3/27	44	14.7	17.9	10.8	
West Yellowstone Pillow	6700	3/30	SP	10.7	15.0	8.6	
Whiskey Creek	6800	3/30	68	25.2	31.1	-	
GALLATIN RIVER							
Arch Falls	7350	3/30	44	12.9	17.1	12.6	
Bear Basin	8150	3/29	61	21.0	31.8	20.2	
Bridger Bowl	7250	3/31	88	32.4	43.2	27.6	
Bridger Bowl Pillow	7250	3/31	SP	30.5	40.2	26.6	
Carrot Basin	9000	3/28	111	45.6	59.4	-	
Carrot Basin Pillow	9000	3/28	SP	35.3	41.4	-	
Devils Slide	8100	3/30	78	23.6	29.8	22.4	
Hood Meadow	6600	3/30	36	11.0	14.7	10.9	
Lick Creek	6860	3/30	30	8.0	13.2	10.2	
Lick Creek Pillow	6860	3/30	SP	6.9	15.8	10.1	
Little Park	7400	3/29	55	17.3	23.8	15.4	
Maynard Creek	6210	3/31	55	20.5	26.5	16.7	
Maynard Creek Pillow	6210	3/31	SP	11.7	15.6	11.4	
New World	6700	3/31	33	9.8	16.1	11.0	
Shower Falls	8100	3/30	89	28.0	35.3	26.8	
Shower Falls Pillow	8100	3/30	SP	26.6	31.4	23.5	
Twenty-One Mile	7150	3/27	56	21.2	27.3	17.4	

SP - Snow pillow observation - water content only. E - Estimated water content.

SNOW

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
MISSOURI RIVER (Main Stem)						
Boulder Mountain	7950	3/28	77	28.6	29.4	16.8
Chessman Reservoir	6200	3/29	14	3.8	4.8	4.2
Deadman Creek	6450	3/31	37	15.9	15.4	11.4
Deadman Creek Pillow	6450	3/31	SP	13.6	13.6	-
Elk Peak	8000	3/29	61	21.1	23.8	16.9
Frohner Meadows	6500	3/28	32	11.8	-	-
Grasshopper	7000	3/29	18	5.2	7.2	5.4
Kings Hill	7500	3/27	71	26.9	18.4	13.2
Stemple Pass	6600	3/28	46	16.4	12.8	10.8
Ten Mile Lower	6600	3/30	28	9.0	8.0	6.9
Ten Mile Middle	6800	3/30	54	16.6	14.0	10.8
Ten Mile Upper	8000	3/29	62	19.6	18.1	14.0
SUN-TETON-MARIAS RIVERS						
Badger Pass	6900	3/31	136	57.7	58.4	37.2
Blue Lake	5900	3/31	89	40.4	36.6	-
Cabin Creek	5200	3/31	23	8.3	10.1	7.3
Five-Bull	5700	3/31	32	11.9	10.1	6.9
Freight Creek	6000	3/31	67	25.4	26.6	16.6
Goat Mountain	7000	4/01	43	17.1	16.1	11.7
Mount Lockhart	6400	3/24	89	40.2	33.4	-
Mount Lockhart Pillow	6400	3/24	SP	33.8	30.8	-
Waldron	5600	3/24	39	18.2	17.2	-
Waldron Pillow	5600	3/24	SP	17.4	14.3	-
Wrong Creek	5700	3/29	58	24.7	22.8	16.0
Wrong Ridge	6800	3/29	84	31.6	28.7	21.9
JUDITH RIVER						
Avalanche	7100	3/31	77	22.8	23.9	-
Big Snowy	7150	3/31	72	20.2	24.2	-
Crystal Lake	6100	3/31	42	11.8	17.8	12.8
Rock Creek	5600	3/31	33	7.4	10.6	8.8
Spur Park	8100	3/31	83	33.0	29.0	21.5
Spur Park Pillow	8100	3/31	SP	34.8	27.6	-
MUSSELSHELL RIVER						
Daisy Peak	7600	3/27	43	16.4	13.4	-
Eagle Creek	7000	3/29	44	16.0	16.4	-
Forest Lake	6400	3/29	41	15.0	14.0	-
Haymaker	8050	3/30	55	19.4	15.0	-
Johnson Park	6450	3/27	18	6.8	9.7	-

SP - Snow pillow observation - water content only.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

MILK RIVER

Bear Paw Ski Area	5200	3/30	20	4.8	11.8	-
King Creek Saddle	4550	4/03	0	0.0	8.2	-
King Springs	4150	4/03	0	0.0	6.3	-
Mission Mountain	5050	4/03	0	0.0	8.7	-
Rocky Boy	4700	3/30	11	1.8	7.6	4.5
Rocky Boy Pillow	4700	3/30	SP	1.8	9.6	-

ST. MARY RIVER

Hudson Bay Divide	5800	3/31	73	28.3	25.8	18.9
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SASKATCHEWAN (BOW) RIVER

Bow River #1	5100	3/28	42	15.2	10.2	9.4
Chateau Lawn #8	5700	3/28	51	18.9	14.0	11.3
Mirror Lake #6	6600	3/28	62	22.1	14.5	12.7
Mount Eisenhower #10	5000	3/29	32	11.0	7.4	4.9
Upper Pipestone #2	5300	3/29	43	16.0	9.9	9.0

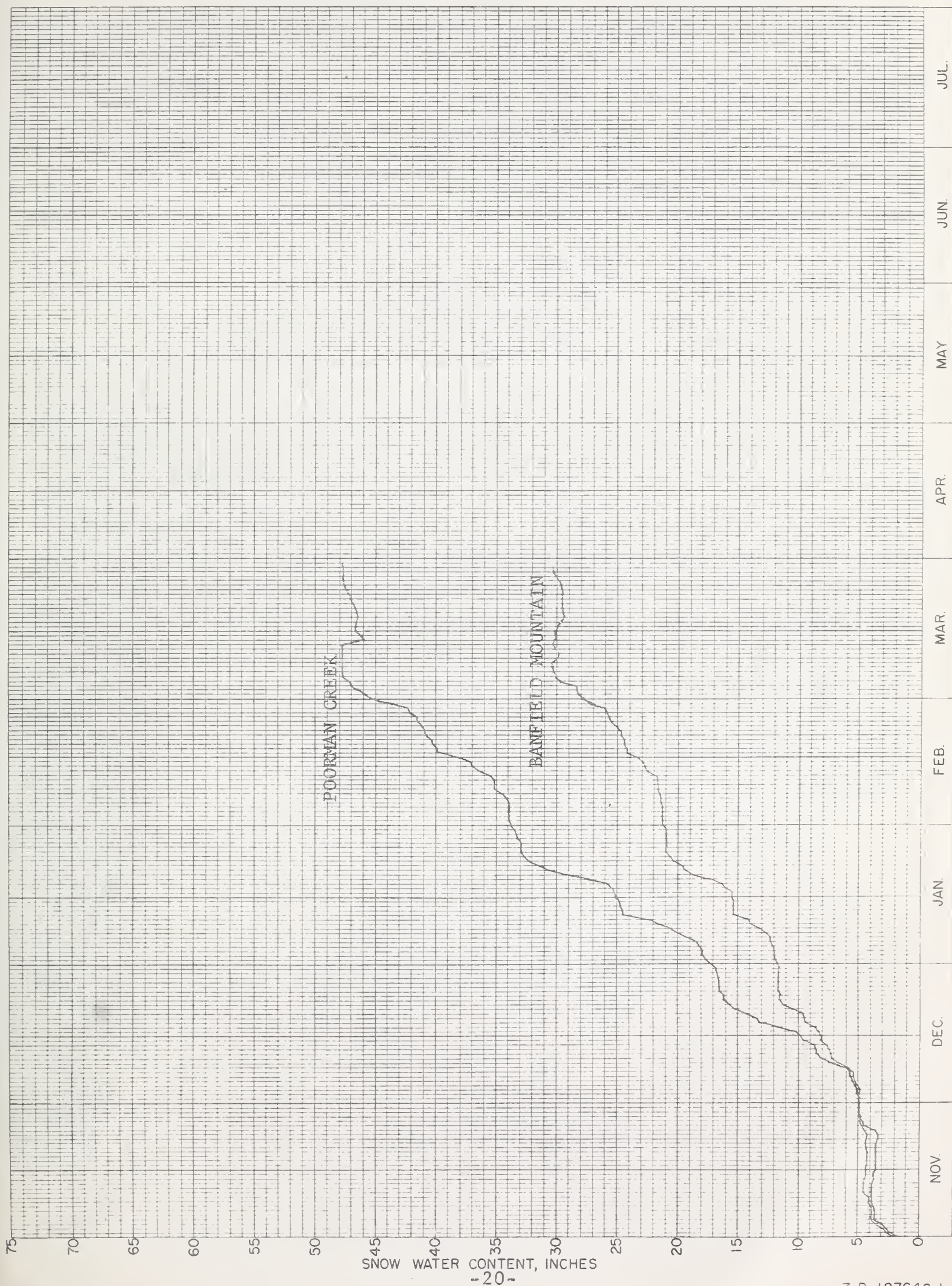
UPPER YELLOWSTONE RIVER

Bald Ridge	7500	3/30	43	11.2	15.9	12.5
Camp Senia	7890	3/31	26	9.2	7.6	6.4
Canyon	7750	3/31	61	20.2	21.0	16.1
Cooke Station	8150	3/31	70	26.0	28.3	19.0
Crevice Mountain	8400	3/30	34	10.4	12.6	8.8
East Entrance	7000	4/01	27	10.2	13.3	9.7
Fisher Creek	9100	3/31	129	52.7	61.0	37.5
Fisher Creek Pillow	9100	3/31	SP	50.6	55.2	-
Grizzly Peak	8400	3/30	77	25.6	23.2	16.5
Independence	7850	3/27	54	20.0	29.8	18.2
Lake Camp	7850	4/01	39	11.7	15.0	9.9
Lupine Creek	7300	3/31	39	14.3	13.8	10.3
Mill Creek	7500	3/30	36	10.3	17.8	-
Monument Peak	8800	3/27	83	31.0	38.8	24.8
Northeast Entrance	7400	3/31	34	13.0	13.2	9.1
Northeast Entrance Pillow	7350	3/31	SP	11.7	12.8	8.3
Porcupine Ranger Station	6500	3/30	31	7.8	9.4	7.6
Sacajawea	6550	3/31	38	12.1	19.6	13.0
South Fork Shields	8100	3/30	85	27.7	32.6	24.1
Sylvan Pass	7100	4/01	46	18.2	20.4	13.4
Thumb Divide	7900	3/30	70	26.9	35.0	22.5
Timberline Creek	8850	3/31	68	23.8	17.8	15.5
West Rosebud	7500				17.1	10.6
White Mill	8700	3/31	95	35.9	41.1	25.8
Wolverine	7650	3/31	46	18.2	15.8	-

SP - Snow pillow observation - water content only.

SNOW PILLOW DATA
WATER YEAR 1972

No. _____ Elev. _____ Drainage: KOOTENAI



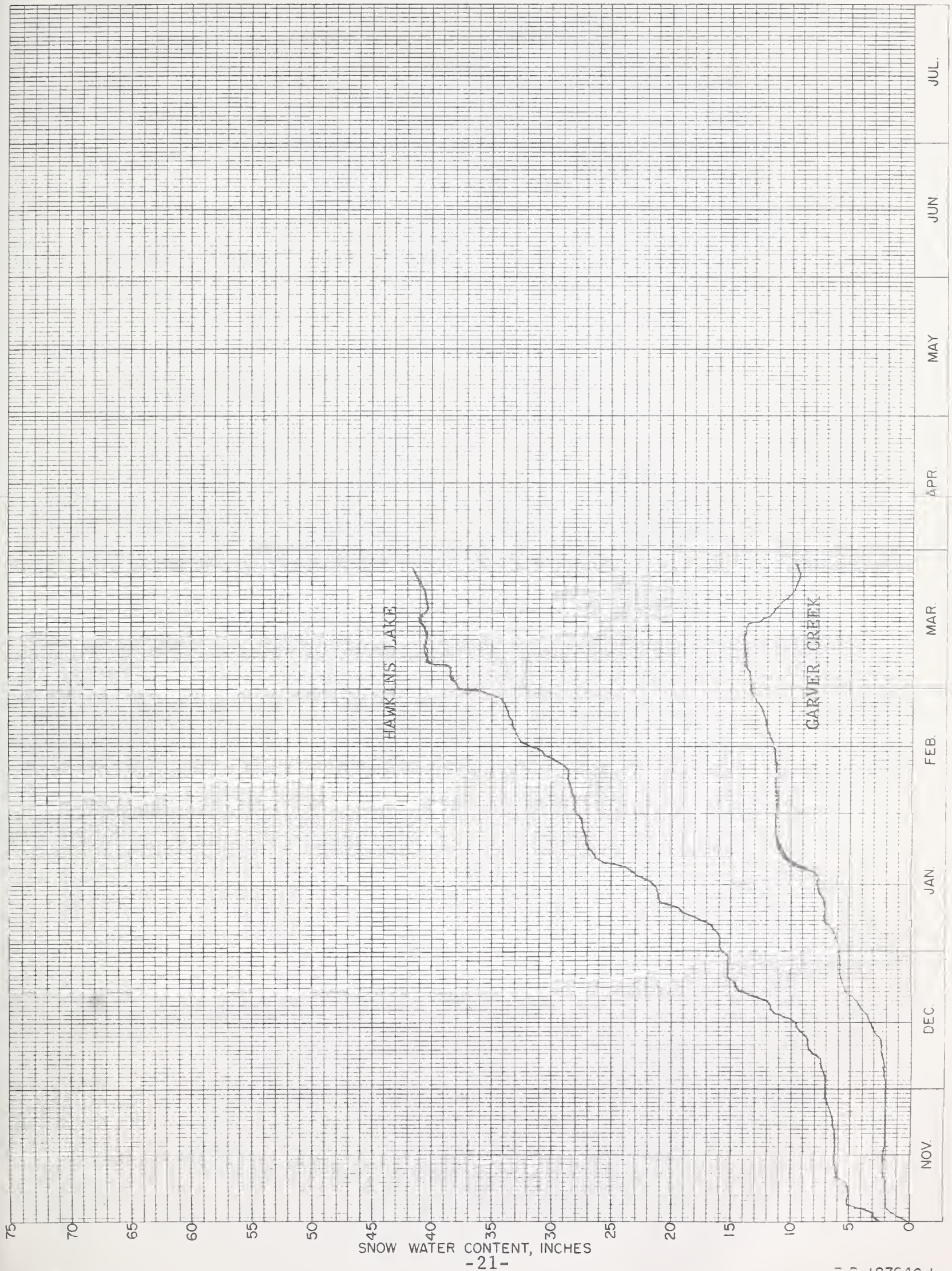
SNOW PILLOW DATA
WATER YEAR 1972

No. _____

Elev. _____

Drainage: _____

KOOTENAI

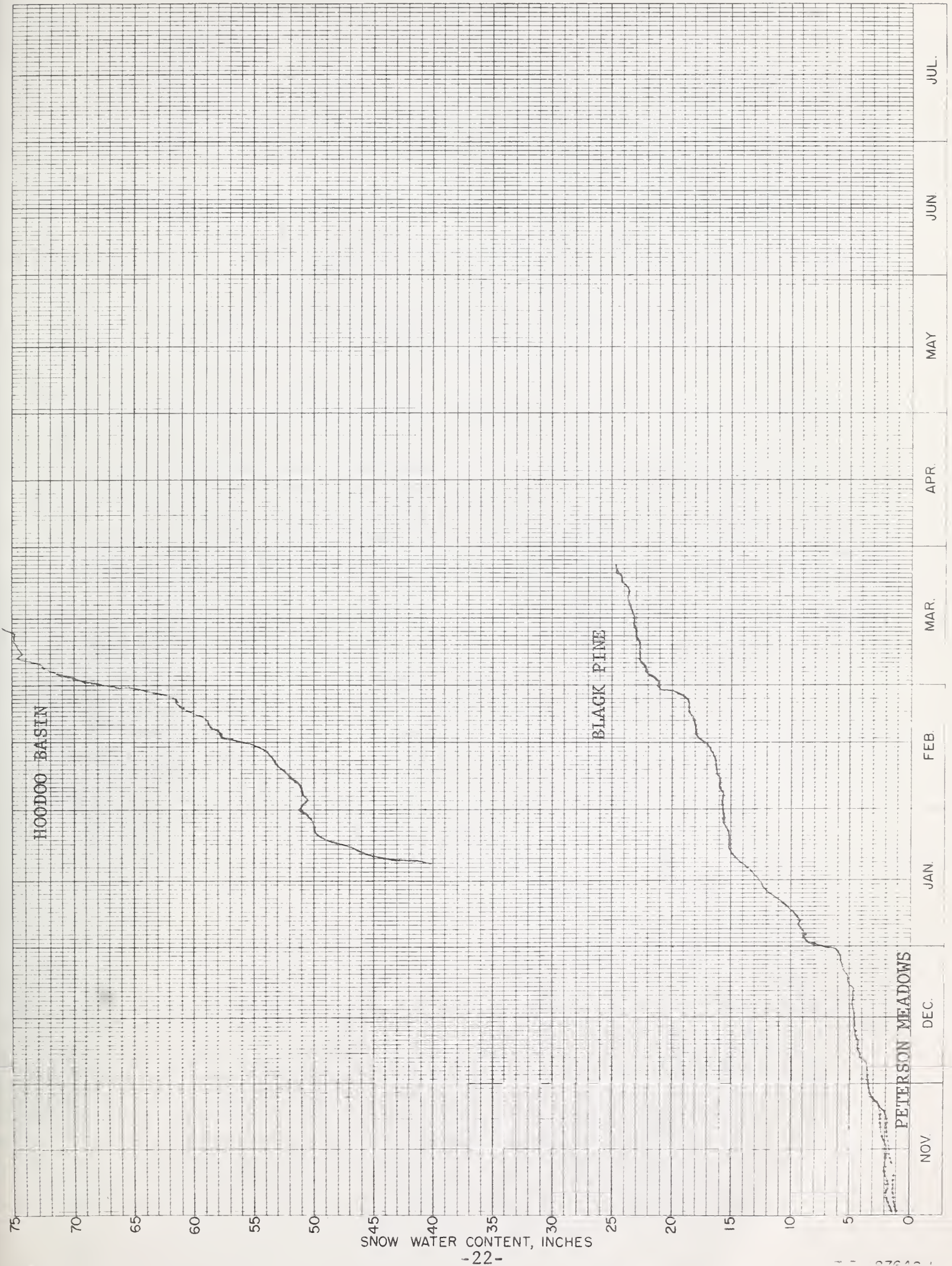


SNOW PILLOW DATA
WATER YEAR 1972

No. _____

Elev. _____

Drainage: CLARK FORK



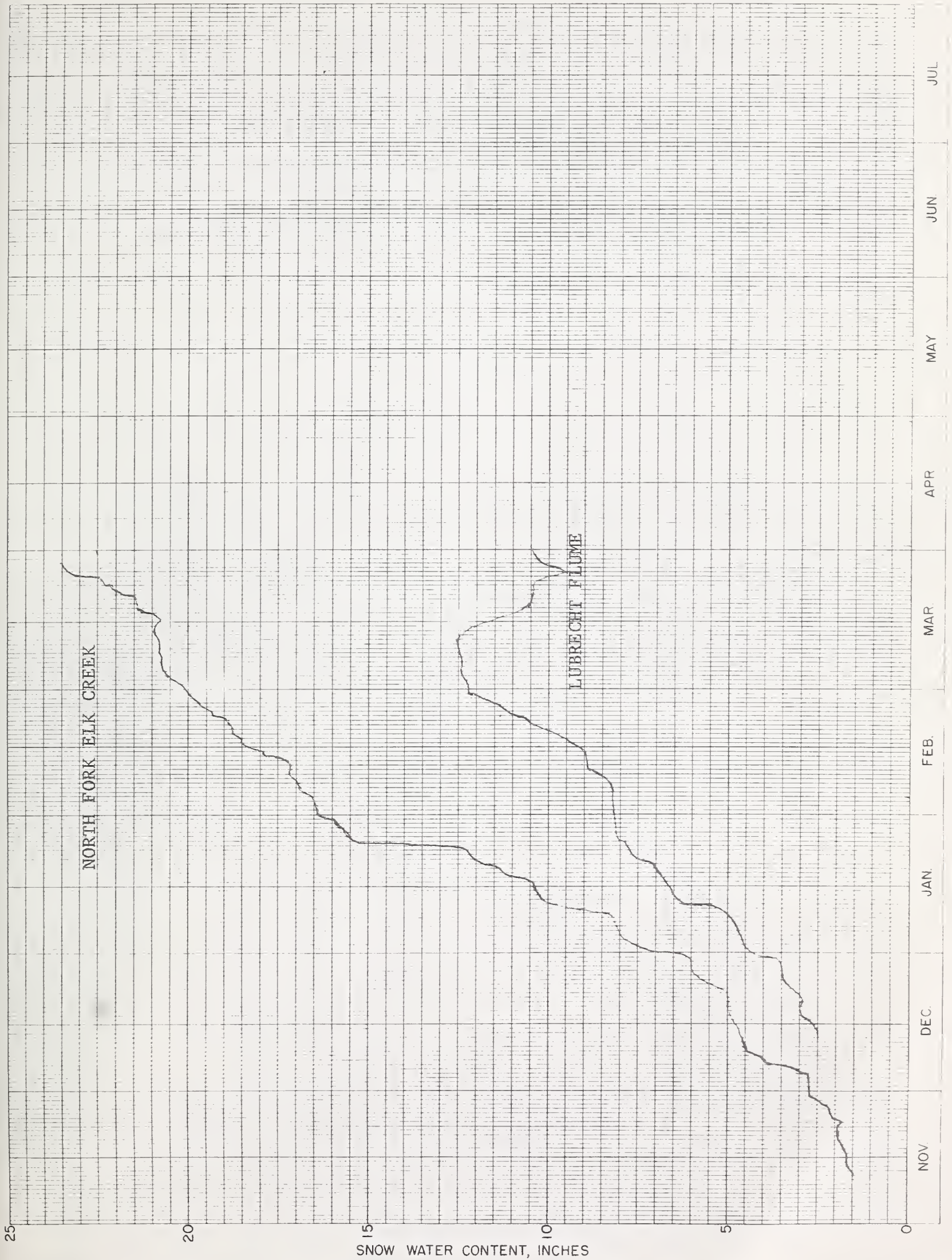
SNOW PILLOW DATA
WATER YEAR 1972

No. _____

Elev. _____

Drainage. _____

BLACKFOOT



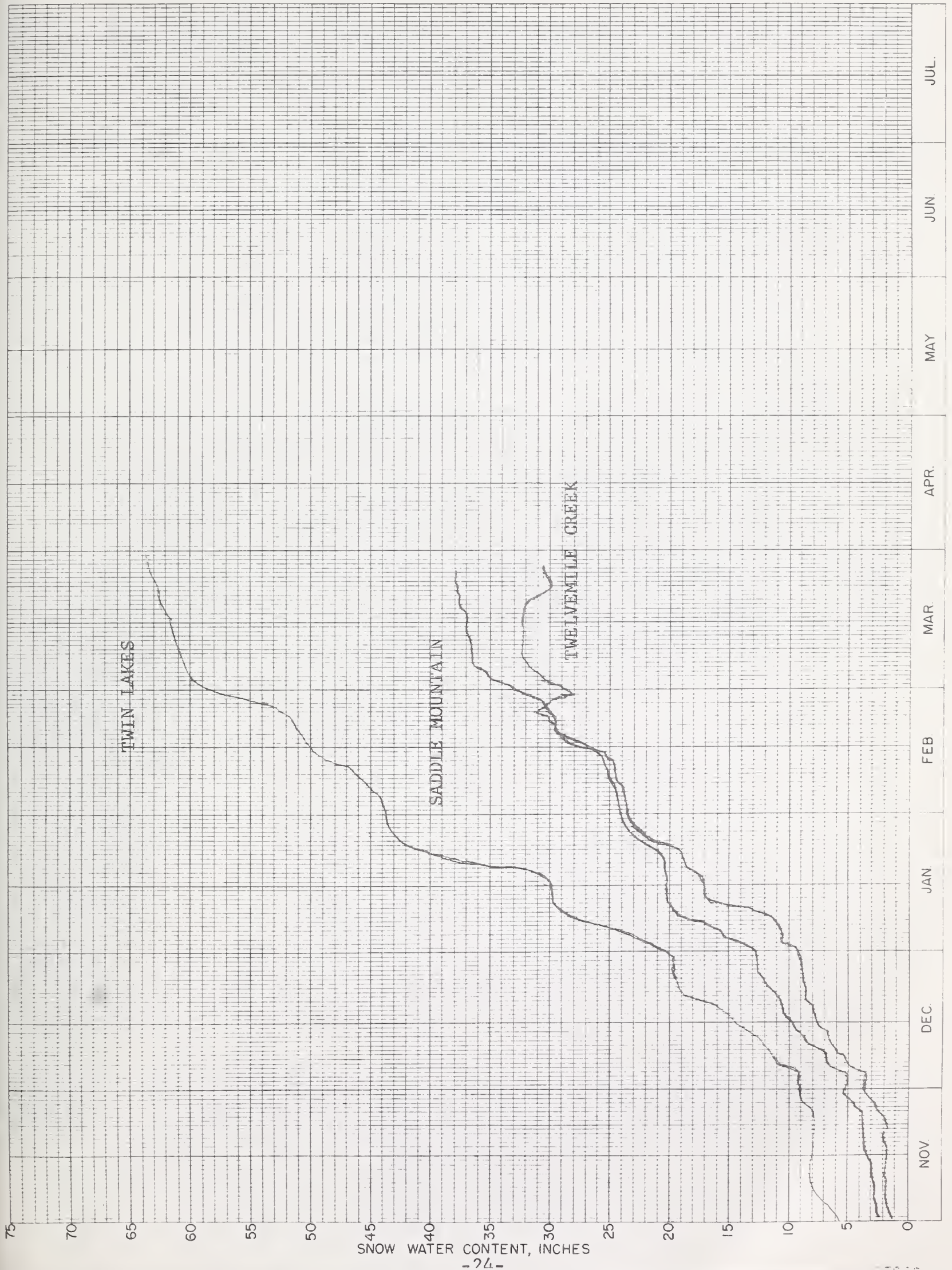
SNOW PILLOW DATA
WATER YEAR 1972

No. _____

Elev. _____

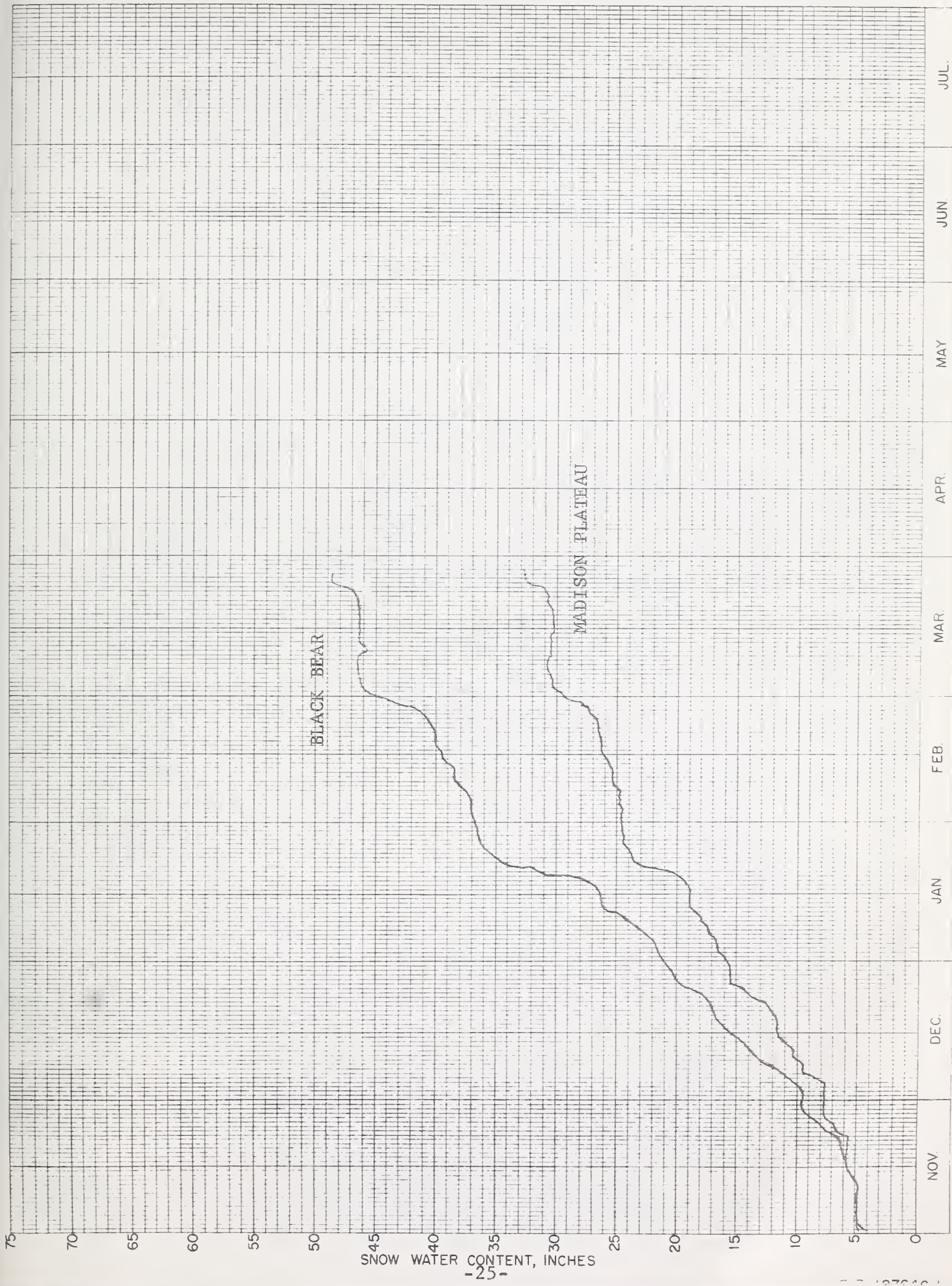
Drainage: _____

BITTERROOT



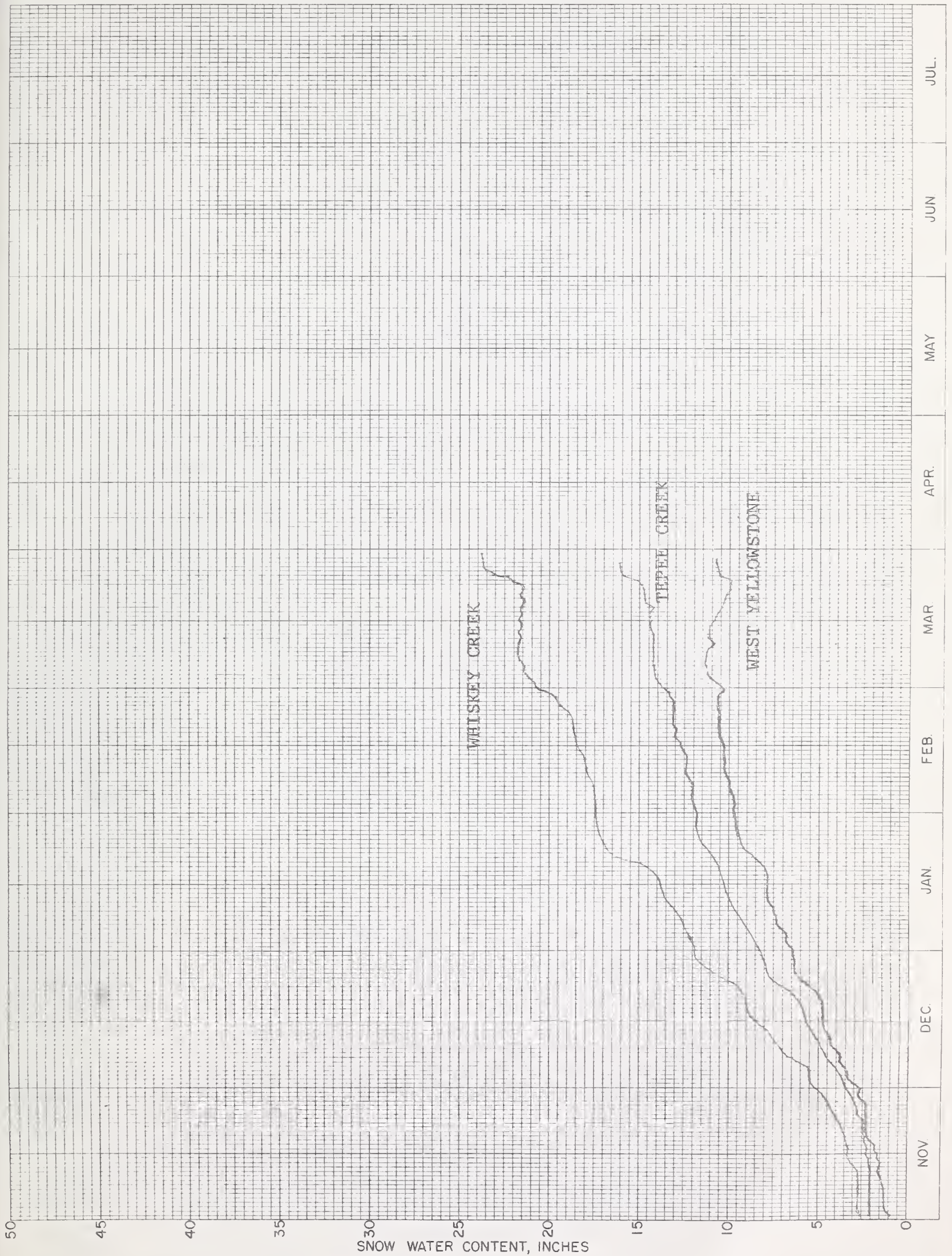
SNOW PILLOW DATA
WATER YEAR 1972

No. _____ Elev. _____ Drainage: MADISON



SNOW PILLOW DATA
WATER YEAR 1972

No. _____ Elev. _____ Drainage: _____ MADISON

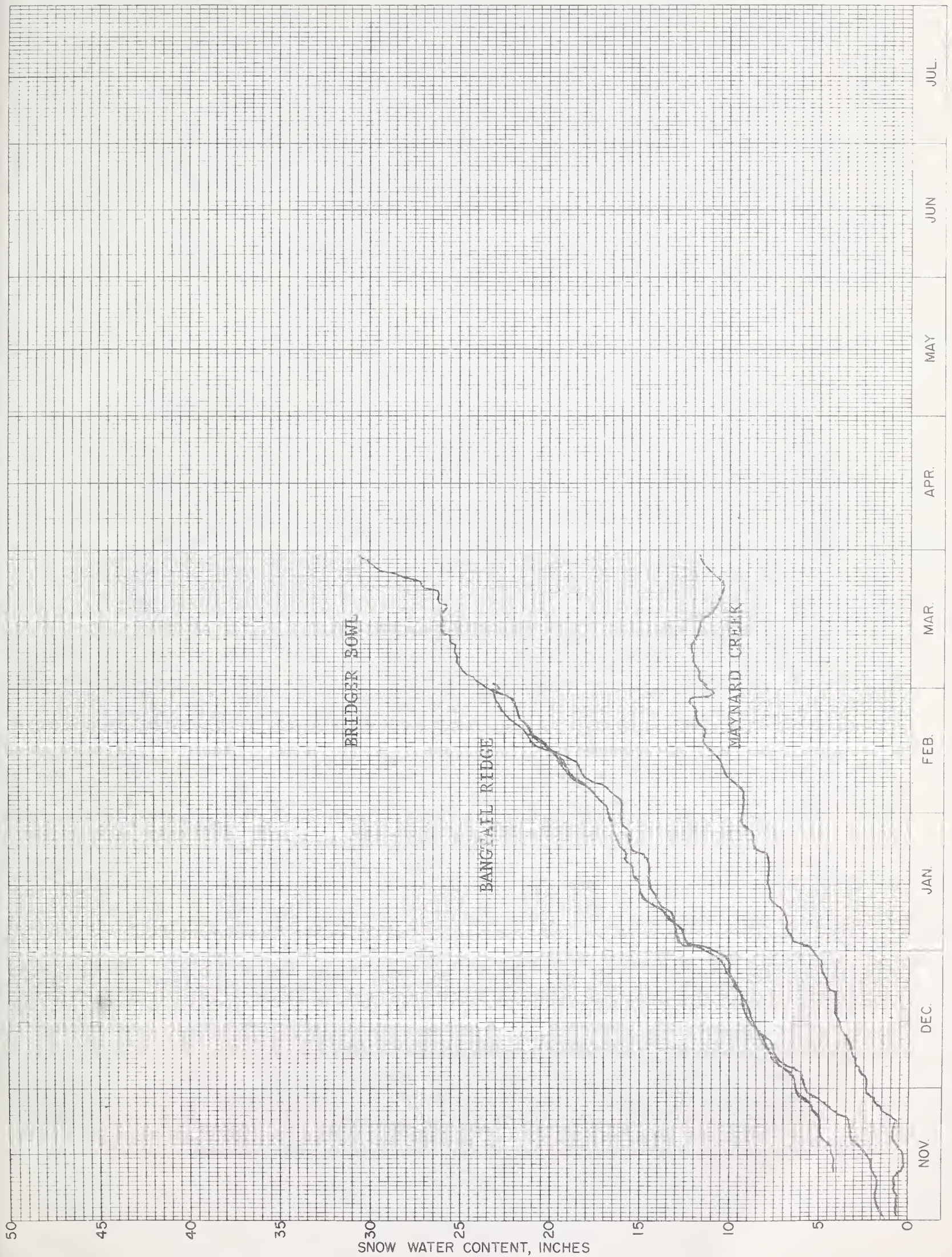


SNOW PILLOW DATA
WATER YEAR 1972

No. _____

Elev. _____

Drainage: GALLATIN

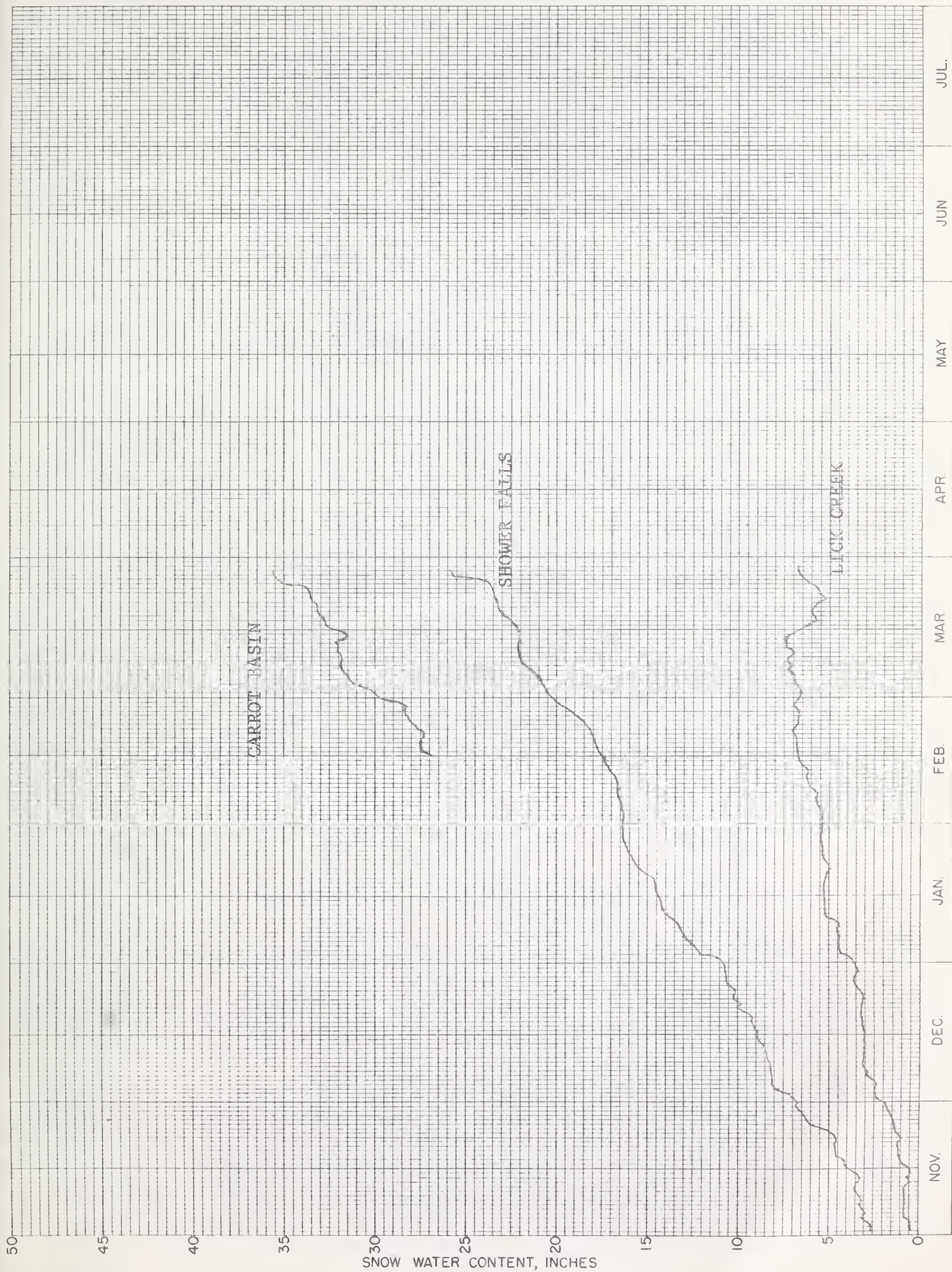


SNOW PILLOW DATA
WATER YEAR 1972

No. _____

Elev. _____

Drainage: GALLATIN



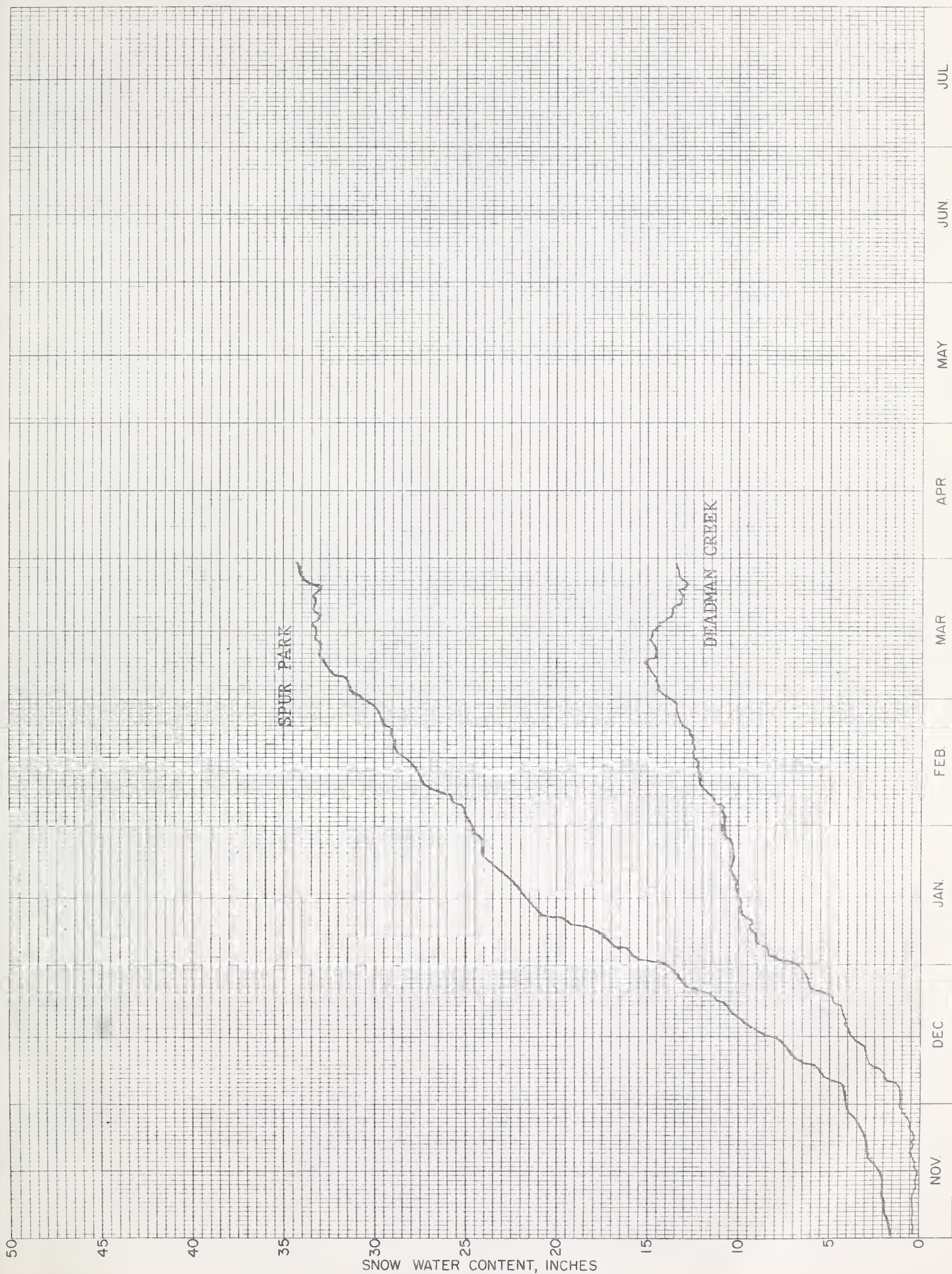
SNOW WATER CONTENT, INCHES

SNOW PILLOW DATA
WATER YEAR 1972

No. _____

Elev. _____

Drainage: JUDITH-JEFFERSON-MISSOURI



SNOW WATER CONTENT, INCHES



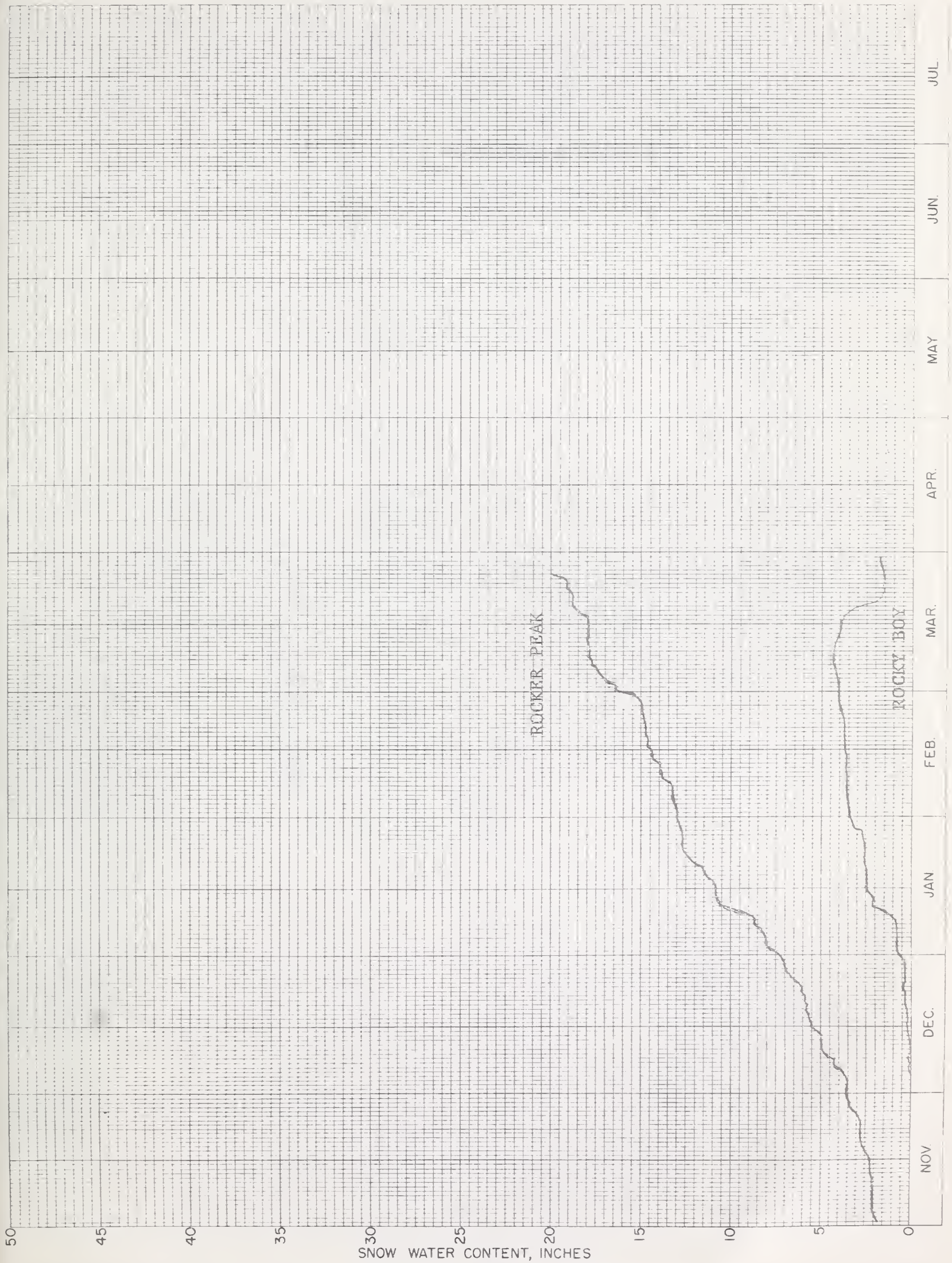
SNOW PILLOW DATA
WATER YEAR 1972

No. _____

Elev. _____

Drainage: _____

JUDITH-JEFFERSON-MISSOURI

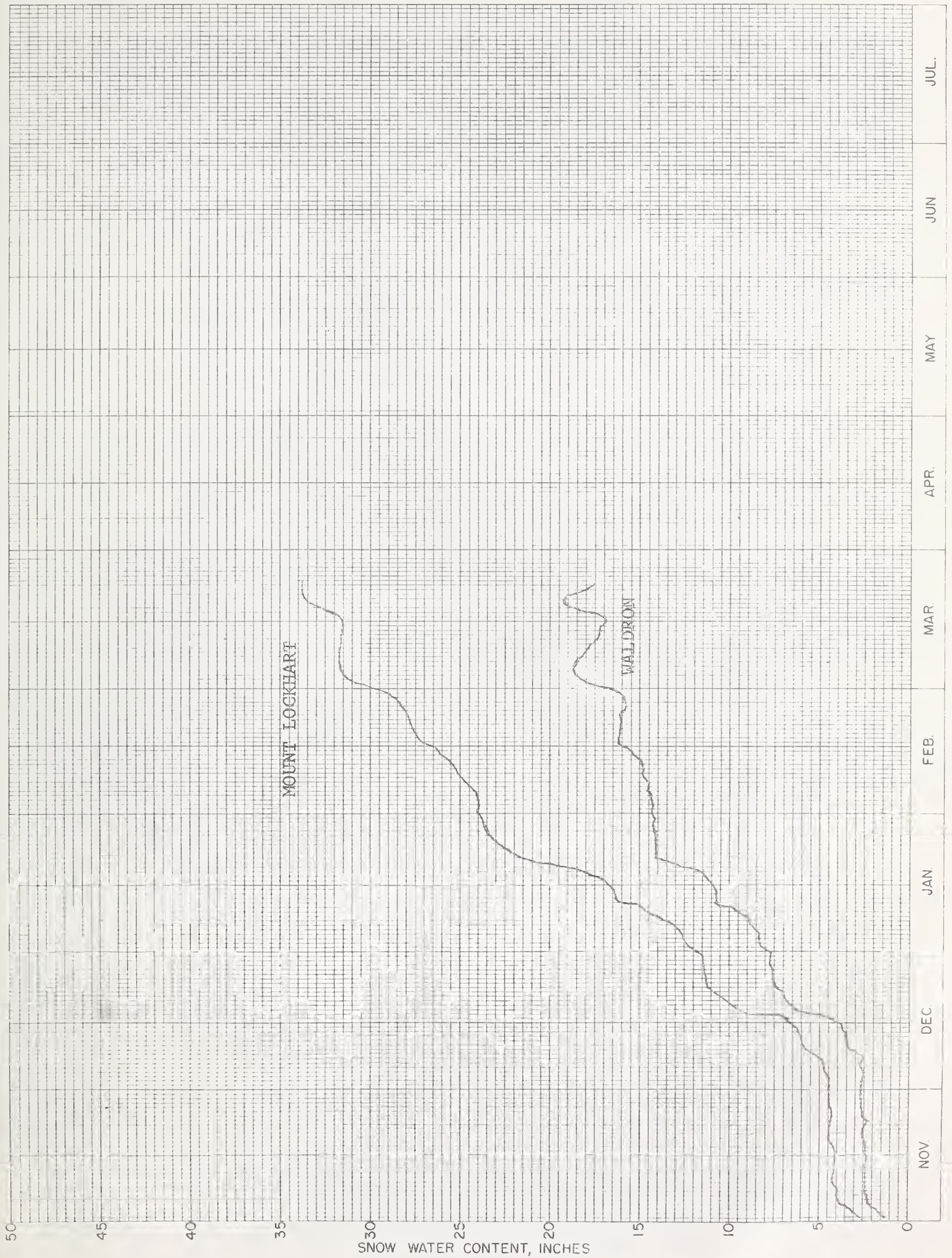


SNOW WATER CONTENT, INCHES



SNOW PILLOW DATA WATER YEAR 1972

No. _____ Elev. _____ Drainage: SUN



SNOW WATER CONTENT, INCHES



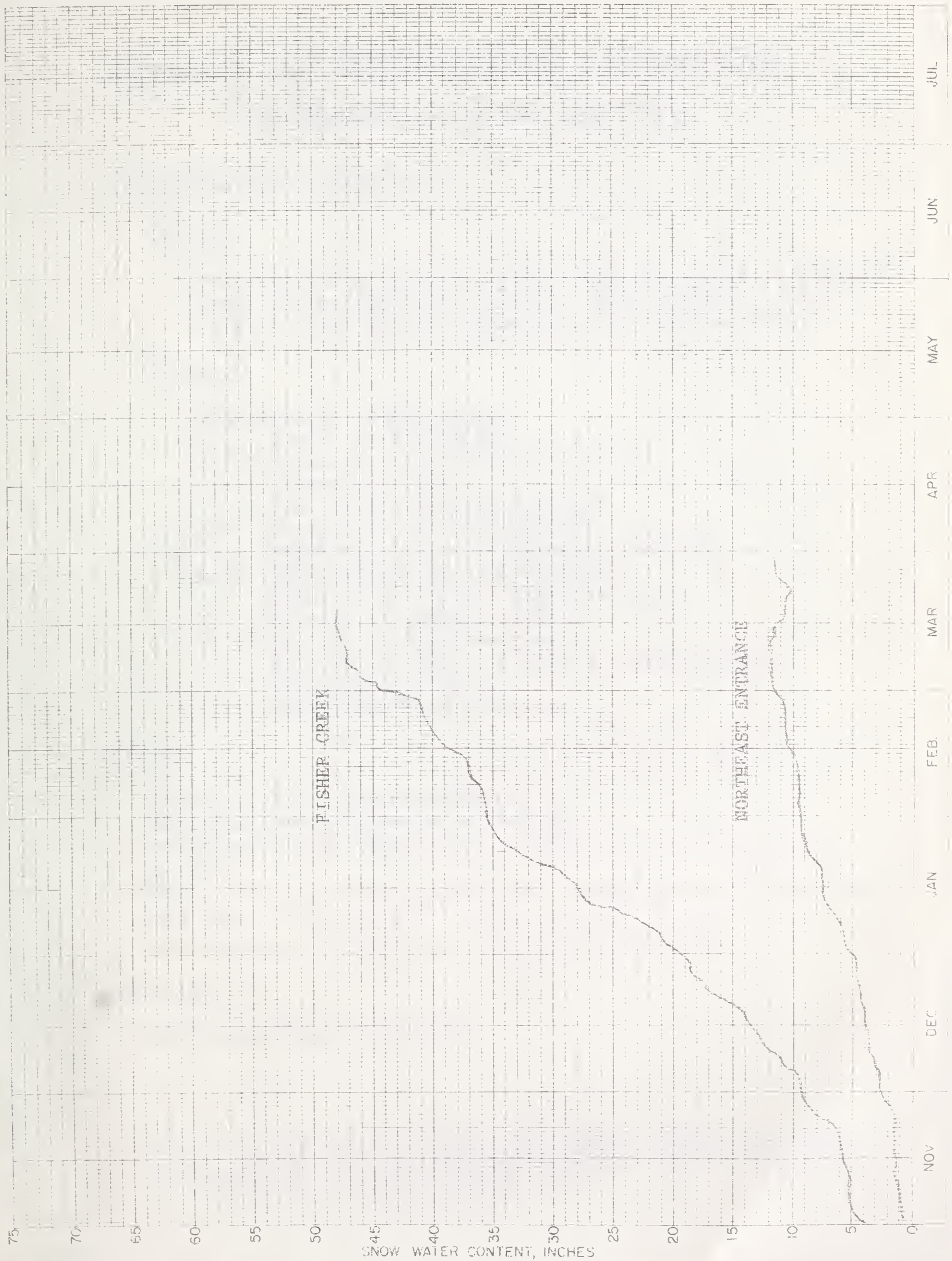
SNOW PILLOW DATA
WATER YEAR 1972

No. _____

Elev. _____

Drainage: _____

YELLOWSTONE



SNOW WATER CONTENT, INCHES



Agencies and Organizations Cooperating in Montana Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Energy, Mines and Resources, Alberta
Water Investigations Branch, Department of Lands,
Forests, and Water Resources, British Columbia

Federal:

Department of the Army
Corps of Engineers
U.S. Department of Agriculture
Forest Service
Soil Conservation Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of the Interior
Bonneville Power Administration
Bureau of Indian Affairs
Bureau of Reclamation
Bureau of Sports Fisheries and Wildlife
Geological Survey
National Park Service

STATE

Montana Conservation Districts
Montana Water Resources Board
Montana State University - Agricultural Experiment
Station
North Montana Branch Station - Agricultural Experiment
Station
University of Montana - School of Forestry

PRIVATE

Montana Power Company

Other organizations and individuals furnish valuable
information for snow survey reports. Their cooperation
is gratefully acknowledged.

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water supply for irrigation,
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mining and industry

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with the Snow Survey"*